QC ABSTRACT

OF WORK: Improvements to roads, drains and other developmental works at Yelahanka old town, nagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. AGE No-01)

Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials					
Cement	Fineness by dry sieving	One Test		1	1
	Finess by Air permeablity method	One Test		1	1
	Density	One Test		1	1
	Standard Consistency	One Test		1	1
	Initial Setting time	One Test		1	1
	Final Setting time	One Test		1	1
	Soundness (Le Chatelier's Method)	One Test		1	1
	Compressive Strength	One Test		1	1
Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
	Flakiness Index	One Test		1	1
	Elongation Index	One Test		1	1
	Specific Gravity	One Test		1	1
	Bulk Density(Loose)	One Test		1	1
	Bulk Density(Compacted)	One Test		1	1
	Water Absorption	One Test		1	1
Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
	Flakiness Index	One Test		1	1
	Elongation Index	One Test		1	1
	Specific Gravity	One Test		1	1
	Bulk Density(Loose)	One Test		1	1
	Bulk Density(Compacted)	One Test		1	1
	Water Absorption	One Test		1	1
	Aggregate crushing Value	One Test		1	1
	Aggregate Impact Value	One Test		1	1
Fine aggregate	SIEVE ANALYSIS	One Test		1	1
	Water Absorption	One Test		1	1
	Specific Gravity	One Test		1	1
	Material finer than 75 micron	One Test		1	1
Steel	Bend test	One Test		1	1
	Tensile Test	One Test		1	1
	Yield Test	One Test		1	1
	ReBend test	One Test		1	1
Block(400*200*200)	BLOCK DENSITY	One Test		1	1
	WATER ABSORPTION	One Test		1	1
	DIMENSION ANALYSIS	One Test		1	1
	COMPRESSIVE STRENGTH	One Test		1	1

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KERB	Core Compressive strength	One Test		1	1
	Corrected Cylinder Compressive strength	One Test		1	1
	Equivalent Cube Compressive strength	One Test		1	1
Precast (100mm)	Core Compressive Strength	One Test		1	1
	Corrected Cylinder Compressive Strength	One Test		1	1
	Equivalent Cube Compressive Strength	One Test		1	1
Precast (230mm)	Core Compressive Strength	One Test		1	1
	Corrected Cylinder Compressive Strength	One Test		1	1
	Equivalent Cube Compressive Strength	One Test		1	1
PCC(M15)	Compressive Strength(7days and 28days)	3 set /1-5 cum	2.75	6	6
RCC(M25)	Compressive Strength(7days and 28days)	4 set /6-15 cum	9.58	8	8
RCC(M20)	Compressive Strength(7days and 28days)	8 set /200-300 cum	234.89	16	16
Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	11 set /300-400 cum	394.04	22	22
GSB	SIEVE ANALYSIS	One Test		1	1
Mortar Sand	Water Absorption	One Test		1	1
	Specific Gravity	One Test		1	1
	Material finer than 75 micron	One Test		1	1
	Compacted Bulk Density	One Test		1	1
	Loose Bulk Density	One Test		1	1
	SIEVE ANALYSIS	One Test		1	1
Plaster Sand	Water Absorption	One Test		1	1
	Specific Gravity	One Test		1	1
	Material finer than 75 micron	One Test		1	1
	SIEVE ANALYSIS	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-02-21-10** **Date:**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	16-12-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-12-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.75	_
2	Finess by Air permeablity method (m^2/kg,Min)	281.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2023-02-21-10

Date: 28/12/2022

ect Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

ıcy : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

omer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

of Receipt : 23-12-22

omer ID : Bangla School Footing Concrete

ple Type /Size : 150X150X150 mm

ple grade/Age : M25 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 28/12/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Bangla School Footing Concrete	M25	21/12/2022	28/12/2022	150.86 X 150.30 X 149.49	22674	8.592	537.5	23.7	22.9
Bangla School Footing Concrete	M25	21/12/2022	28/12/2022	149.86 X 151.37 X 150.04	22685	9.070	514.4	22.7	
Bangla School Footing Concrete	M25	21/12/2022	28/12/2022	149.85 X 151.92 X 149.91	22766	8.561	506.7	22.3	

esults obtained are satisfactory as per standard requirements.

A.E.E

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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2023-02-21-10

Date: 23/01/2023

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 28-12-22

Customer ID : Drain Side Wall- BSF Campus

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall-BSF Campus	M20	26/12/2022	23/01/2023	150.63 X 150.25 X 150.13	22632	8.743	541.7	23.9	23.3
2	Drain Side Wall-BSF Campus	M20	26/12/2022	23/01/2023	150.99 X 149.47 X 149.19	22569	8.700	514.8	22.8	
3	Drain Side Wall-BSF Campus	M20	26/12/2022	23/01/2023	150.86 X 150.42 X 150.13	22693	8.858	524.6	23.1	

The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****